

SSC History

1946

- Formed based on a recommendation of the Board of Investigation studying the brittle fracture of the Liberty Ships.
- Continued research in Ship Structures

- 1950's - 60's

- mechanical metallurgy
- chemical & physical metallurgy
- geometry of structural members
- transition temperatures
- effect of edge preparations

- 1970's

- new designs - new structural concerns
- catamarans
- dynamically supported vessels
- cryogenic product
- full transverse fracture

- 1980's

- fatigue failure in new high strength steel vessels
- oil pollution prevention
- failure mechanisms and their abatement

- 1990's

- reliability based ship design
- improved structural detail design
- welding practices
- inspection techniques
- investigate expanded use of composite materials in marine structures



Ship Structure Committee

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Ship Structure Committee Strategic Plan



Established in 1946

Member Agencies:

American Bureau of Shipping

Defence Research Establishment Atlantic

Maritime Administration

Military Sealift Command

Naval Sea Systems Command

Transport Canada

United States Coast Guard

VISION.

TO ELIMINATE MARINE STRUCTURAL FAILURES

MISSION.

To enhance the safety of life at sea, promote technology and education advancements in marine transportation, and to protect the marine environment. This will be done through advocating, participating in, and supporting cooperative research and development in Structural Design, Life Cycle Risk Management of Marine Structures, and Production Technologies.



The S. S. Schenectady



July 1995 Collision of the *ENIF* & *ALEXIA*

STRATEGIC GOALS.

1. To identify gaps in structural knowledge, and to develop a research and development plan to bridge the gaps.
2. To address today's ship structural performance and safety assessment issues.
3. To be recognized as a credible resource for ship safety experts.
4. To advocate and search out cost share opportunities and partnerships, where possible and practicable, to complete the projects recommended by the Committee.

GUIDING PRINCIPLES.

1. The Committee shall ensure good stewardship of Committee funds and resources.
2. The Committee shall support projects to improve Safety of Life at Sea and to protect the Marine Environment through enhancing the performance of ship structures.
3. The Committee shall support projects developed and submitted by the member agencies, liaison members and other industry supporters.
4. The Committee shall ensure research results and new technology are provided in a useable form to the customer base.



High Speed Craft